

It's what's inside that counts

We've spent the last 90 years designing, building and perfecting air filtration, and in that time we've done a lot of research. Ultimately, our scientists have perfected the ideal combination of synthetic and natural materials to optimize each filter for its intended environment. So when you choose AAF, you're always getting the right tool for the job.

Ready to perform

AAF offers specialized canister and pulse filtration solutions for a wide variety of climates and conditions.

Filter Name	Media Type	Filtration Efficiency per Test Standard											
		EN779				ASHRAE 52.2 MERV				EN1822			
		M6	F7	F8	F9	12	13	14	15	E10	E11	E12	
DuraShield	Blended media with nanofiber				●					●			
HydroKlean	100% synthetic				●					●			
HydroShield™	100% synthetic w/ enhanced oil & water repellency										●		
HydroShield XL	Synthetic media w/ advanced membrane technology												●

Quality, expertise and innovation

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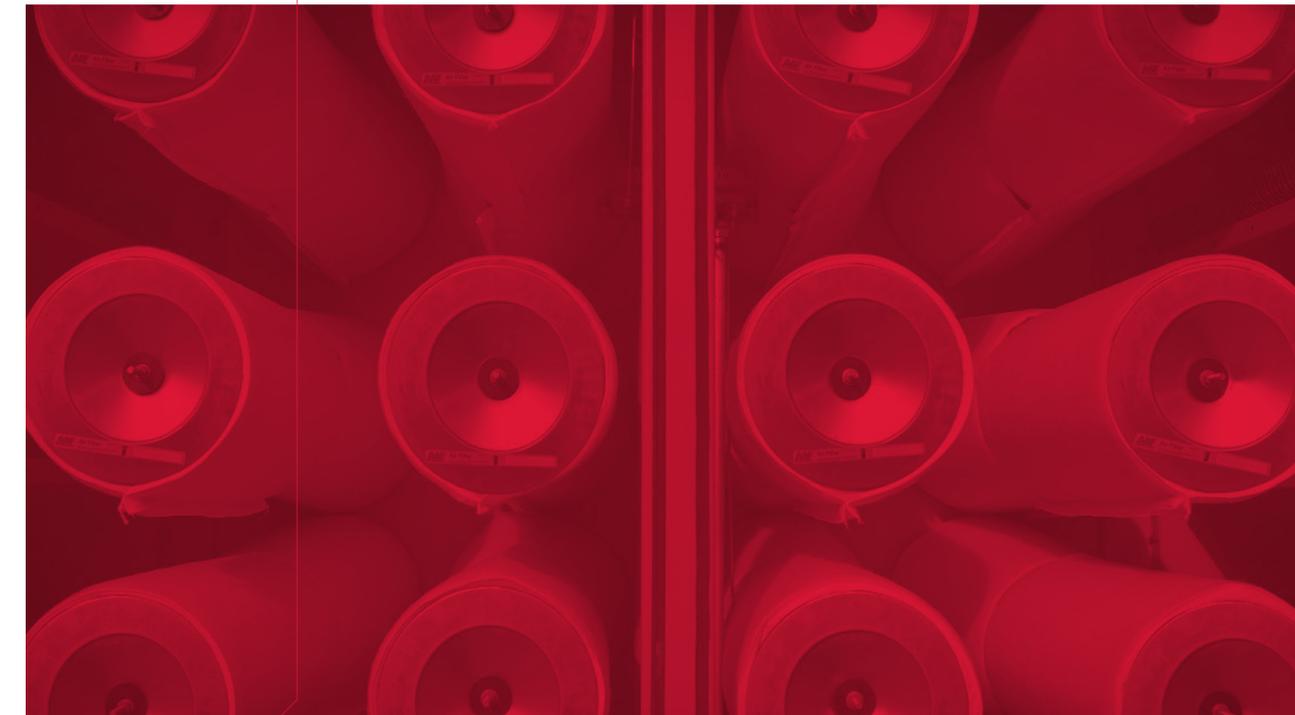
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Canister filtration solutions

Performance Enhancement
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GAS TURBINE
SOLUTIONS

The right filter for every application

Any job, any environment, anywhere

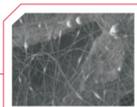
With 90 years of global expertise in air filtration, AAF continues to produce some of the world's most effective solutions for cleaner, more powerful, more efficient gas turbine operation. From dry, large-particle environments to fine particulates, moisture and hydrocarbons, AAF canister filters offer a robust and highly effective solution for multiple applications.



AAF's filtration solutions, equipment installation and technical services help gas turbine operators realize greater efficiency and performance in adverse environments around the world.

Fine Filtration

Created after extensive research, testing and development, AAF fine canister filtration solutions use scientifically advanced materials and construction techniques to create media with highly effective surface-loading properties. As a result, submicron particles collect on the surface rather than making their way into the interior of gas turbines.



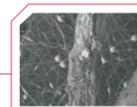
Nanofiber 1000x

DuraShield®

Constructed of a proprietary high-strength, polyester-reinforced media with a nanofiber outer surface layer, DuraShield filters offer exceptional burst strength and resistance to abrasion, rupture and the rigors of pulse cleaning. The outer layer excels at particulate surface loading, permitting excellent filtration while still allowing superior dust release for effective pulse operation.

- | Engineered for rugged industrial environments
- | Low pressure drop for improved efficiency and increased output
- | Strong polyester-reinforced base media
- | Nanofiber outer surface layer
- | High moisture resistance
- | Higher initial efficiency
- | MERV 15 filtration efficiency
- | Highest durability against hostile contaminants and in difficult applications
- | Surface loading media for pulsing applications
- | Increased pulse-clean effectiveness for longer useful life

SPECIFICATIONS	
Media substrate: cellulose/polyester blend	Flame retardant: none
Max operating temperature: 170°F/76°C	Average arrestance: >99%
MERV value: 15	Filter class (using EN779 test protocol): F9
Particulate release: proprietary microfine outer layer	Final resistance: 4.0 in. w.g.



Nanofiber 1000x

HydroKlean

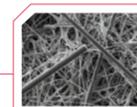
In environments with higher moisture levels, AAF HydroKlean filters offer exceptional particulate removal and durability. Constructed of entirely synthetic fibers, HydroKlean offers superior dust-holding efficiency, high wet burst strength and moisture resistance. Furthermore, a low pressure drop during operation helps preserve fuel efficiency and reduce energy costs.

- | Highly effective in wet environments
- | Designed with a substantial wet burst strength
- | Surface loading media optimized for pulsing applications
- | Durable nanofiber layer resists abrasion
- | High initial and sustained efficiency
- | Strong, 100% synthetic support layer

SPECIFICATIONS	
Media substrate: synthetic	Flame retardant: none
Max operating temperature: 200°F/93°C	Average arrestance: >99%
MERV value: 15	Filter class (using EN779 test protocol): F9
	Final resistance: 4.0 in. w.g.

(H)EPA Filtration

AAF (H)EPA filtration solutions offer the most advanced gas turbine filtration available. Operators who choose (H)EPA solutions will enjoy greater power, increased efficiency, lower fuel use and extended maintenance intervals between water washes, even in extremely arduous conditions.



Microfiber 1000x



Water

HydroShield™

Today's gas turbines depend upon sustainable filtration performance in order to maintain output and limit fouling. HydroShield uses AAF's proprietary depth-loading media and a specially formulated treatment that repels both water and hydrocarbons for low resistance and maximum filter life.

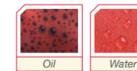
- | Depth-loading media for maximum filter life in hydrocarbon-laden environments
- | Specially formulated for enhanced strength, water and oil repellency
- | Exceptional burst strength even when wet
- | Developed in a proprietary, purpose-built testing facility
- | Optimized media pleating ensures low airflow resistance and high dust-holding ability

SPECIFICATIONS	
Media substrate: synthetic	EN 1822 classification: E10
Max operating temperature: 176°F/80°C	Minimum efficiency @ MPPS: 91%
MERV value: 16	Final resistance: 4.0 in. w.g.

AAF HydroShield depth-loading, (H)EPA cartridges are not designed for pulsing.



Membrane cross-section 60x



Oil Water

HydroShield XL

Gas turbines operating in wet, hydrocarbon-heavy environments face a particularly difficult challenge: maintaining airflow and preventing pressure drop even when presented with sticky, wet particulates. HydroShield XL has been designed to excel in these conditions, with a unique depth-loading filter media and membrane construction that absorbs contaminants without substantial pressure drop.

- | Specially designed multi-layer media fends off multiple threats
- | Resists seawater, hydrocarbons and dust
- | Depth-loading media captures contaminants while repelling oil and moisture
- | Developed in a proprietary, purpose-built testing facility
- | Optimized media pleating ensures low airflow resistance and high dust holding ability
- | A synthetic substrate delivers exceptional burst strength and integrity even when wet

SPECIFICATIONS	
Media substrate: synthetic	EN 1822 classification: E12
Max operating temperature: 176°F/80°C	Minimum efficiency @ MPPS: 99.5%
	Final resistance: 4.0 in. w.g.